

# INDUSTRIAL TG

## TROWEL GRADE



# DESCO

**DESCO INDUSTRIAL TG** is a trowel grade thermos setting flooring material that is a solid color resin. It can be applied over rough to smooth concrete surfaces either by hand trowel or power trowel. This system is offered with the leading stain resistant finish coats if needed. It is normally applied at 1/8" to 1/4" thickness.

### TYPICAL USES

- Laboratories
- Chemical containment
- Corridors
- Bio Tech processing
- Manufacturing

### TEXTURES

**Orange Peel:** Offers a smooth easily cleaned surface with a slight texture.

**Translucent Aggregates:** Can be incorporated into the top coats to offer a degree of slip resistance to meet the needs of the end user.

### PHYSICAL PROPERTIES

#### Compressive Strength

ASTM C-579..... 10,700-11,000 psi

#### Tensile Strength

ASTM C-307..... 2,250 psi  
Flexural Strength..... 4,000 psi

#### Shore D Hardness

ASTM D-2240..... 85 – 90

#### Bond Strength

ASTM D-4541 ..... 425 psi

#### Abrasion Resistance

ASTM D-4060 ..... 0.08 gm

#### Color Stability by X-Rite Colorimeter:

No detectable change after 500 hours using the "b" axis.

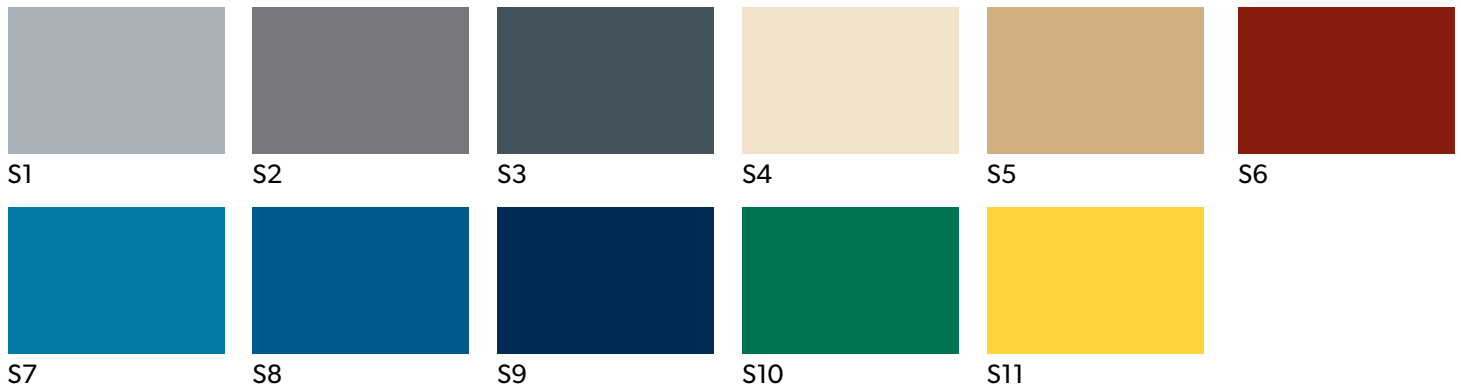
*The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.*

### OPTIONS

- SA** Steel aggregate can be added to the trowel or layered system to give enhanced impact resistance.
- CR** All the above systems are offered with chemical resistant top coats, individually designed to meet the reagent, exposure times and temperatures of aggressive chemical parameters.
- WM** A Waterproof membrane for suspended slab construction.

## COLORS

11 Standard Colors. Custom colors available.



## MOISTURE SLAB TEST

Determine moisture content of slab at time of application. This test only measures the specific area tested at the time of the test and are not predictors of future substrate conditions.

ASTM F-2170 in situ Relative Humidity Test. Follow test procedures of manufacturer of testing equipment. Reading should be below 80%. If above 80%, refer to HydraBond.

## SURFACE PREPARATION

**Concrete:** Apply only to clean, dry and sound concrete substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants.

- New concrete should be cured a minimum of 28 days.
- Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed.
- Remove any laitance or weak surface layers.
- Surface profile shall be SCP 2-3 or greater meeting ICRI (International Concrete Repair Institute) standard guideline #03732 for coating concrete, producing a profile equal to 40-grit sandpaper or coarser. Prepare surface by mechanical means to achieve this desired profile.
- All surface irregularities, cracks, expansion joints and control joints should be properly addressed prior to application.

## PRECAUTIONS

Floors should be sloped to drain to prevent standing water or chemicals. As with any surface, all spills should be removed as soon as possible to prevent a slipping hazard.

A sheet good moisture barrier as designated by ASTM E-1745 Class A should be in contact with bottom side of concrete slabs on grade. A lacking or ineffective vapor barrier may cause moisture related problems, debonding, bubbling or discoloration.

A water cement ratio of 0.45 and 0.5.

A slump in the range of 3 to 4 inches, which can be increased by the use of super plasticizers.

Curing by ASTM C-171 sheet materials for curing concrete.

Do not apply systems when temperature is less than 5°F above the dew point.

Do not apply when substrate temperatures are below 50°F or above 95°F. (Material cures slower at cooler temperatures and working time will be substantially reduced at higher temperatures.)

Water from outside sources can cause water whitening of uncured polymer material.

Confirm product performance in specific chemical environment prior to use.

*DESCO warrants its products to be free from defects in material and workmanship. DESCO's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at DESCO's option, to either replacement of products not conforming to this warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to DESCO in writing within five days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify DESCO of such nonconformance as required herein shall bar Buyer from recovery under this warranty.*

*Any recommendation or suggestion relating to the use of the products made by DESCO, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use, and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. DESCO cannot guarantee that color will conform to sample, if provided.*

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